

FIG. 3

File Information

Topology

Sequence

Parameters

GPIO

Advanced

Evaluation Board

Margining

Monitoring

Power converters to add to Input

Find converters by

Voltage

Current

Make

34

37

35

New custom

31

Add to rail

36

33

Model	Voltage	Current	Type	Package
0 XXX1	1.8	40	Brick	n/a
1 XXX2	5.0	25	Brick	n/a
2 XXX3	3.3	35	Brick	n/a
3 YY1	1.5	10	VRM	SMT
4 YY2	2.5	10	VRM	SMT
5 Z1	2.0	0.1	LDO	SOIC

Input

48V

30

Details of Converter

Make

Model

Location

Move

Delete

Details of Rail

Label

Nominal Output

Volts

Amps

Margining

Minimum

Maximum

Volts

Volts

☐ Trim on primary side

Monitoring

32

FIG. 4

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File Information		Topology	Sequence	Parameters	GPIO	Advanced	Evaluation Board		Margining	Monitoring																																										
<div>Power converters to add to Rail V0 37</div> <div>Find converters by 34 Voltage <input type="text"/> Current <input type="text"/> Make <input type="text"/></div> <table border="1"><thead><tr><th></th><th>Model</th><th>Voltage</th><th>Current</th><th>Type</th><th>Package</th></tr></thead><tbody><tr><td>0</td><td>XXX1</td><td>1.8</td><td>40</td><td>Brick</td><td>n/a</td></tr><tr><td>1</td><td>XXX2</td><td>5.0</td><td>25</td><td>Brick</td><td>n/a</td></tr><tr><td>2</td><td>XXX3</td><td>3.3</td><td>35</td><td>Brick</td><td>n/a</td></tr><tr><td>3</td><td>YY1</td><td>1.5</td><td>10</td><td>VRM</td><td>SMT</td></tr><tr><td>4</td><td>YY2</td><td>2.5</td><td>10</td><td>VRM</td><td>SMT</td></tr><tr><td>5</td><td>Z1</td><td>2.0</td><td>0.1</td><td>LDO</td><td>SOIC</td></tr></tbody></table> <div><div>Input 48V PC0 36 Rail V0 36 Brick 1.8V 40A</div><div>30</div></div> <div><div>Details of Converter PC0 Make <input type="text"/> Maker1 Model <input type="text"/> XXX1 Location <input type="text"/> Main Board <input type="button" value="Move"/> <input type="button" value="Delete"/></div><div>Details of Rail V0 Label <input type="text"/> V0 Nominal Output <input type="text"/> 1.8 <input type="text"/> 40 Volts Amps</div><div>Margining Minimum <input type="text"/> 1.75 Maximum <input type="text"/> 1.85 Volts Volts <input type="checkbox"/> Trim on primary side</div><div>Monitoring 32</div></div>												Model	Voltage	Current	Type	Package	0	XXX1	1.8	40	Brick	n/a	1	XXX2	5.0	25	Brick	n/a	2	XXX3	3.3	35	Brick	n/a	3	YY1	1.5	10	VRM	SMT	4	YY2	2.5	10	VRM	SMT	5	Z1	2.0	0.1	LDO	SOIC
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4	YY2	2.5	10	VRM	SMT																																															
5	Z1	2.0	0.1	LDO	SOIC																																															

FIG. 5

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File Information		Topology		Sequence		Parameters		GPIO		Advanced		Evaluation Board		Margining		Monitoring																																			
<div>Power converters to add to Rail V1 37</div> <div>Find converters by 34 Voltage <input type="text"/> Current <input type="text"/> Make <input type="text"/></div> <table border="1"><thead><tr><th>Model</th><th>Voltage</th><th>Current</th><th>Type</th><th>Package</th></tr></thead><tbody><tr><td>0 XXX1</td><td>1.8</td><td>40</td><td>Brick</td><td>n/a</td></tr><tr><td>1 XXX2</td><td>5.0</td><td>25</td><td>Brick</td><td>n/a</td></tr><tr><td>2 XXX3</td><td>3.3</td><td>35</td><td>Brick</td><td>n/a</td></tr><tr><td>3 YY1</td><td>1.5</td><td>10</td><td>VRM</td><td>SMT</td></tr><tr><td>4 YY2</td><td>2.5</td><td>10</td><td>VRM</td><td>SMT</td></tr><tr><td>5 Z1</td><td>2.0</td><td>0.1</td><td>LDO</td><td>SOIC</td></tr></tbody></table> <div>35 New custom 31 Add to rail 36</div>																	Model	Voltage	Current	Type	Package	0 XXX1	1.8	40	Brick	n/a	1 XXX2	5.0	25	Brick	n/a	2 XXX3	3.3	35	Brick	n/a	3 YY1	1.5	10	VRM	SMT	4 YY2	2.5	10	VRM	SMT	5 Z1	2.0	0.1	LDO	SOIC
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Details of Converter PC1				Details of Rail V1				Margining				Monitoring																																							
Make	Maker2			Label	V1			Minimum	4.95		Volts		32																																						
Model	XXX2			Nominal Output	5.0			Maximum	5.05		Volts																																								
Location	Main Board				25							Amps		<input type="checkbox"/> Trim on primary side																																					
<div>Move <input type="button" value="Move"/></div>				<div>Delete <input type="button" value="Delete"/></div>																																															

FIG. 6

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File Information	Topology	Sequence	Parameters	GPIO	Advanced	Evaluation Board	Margining	Monitoring																																									
Power converters to add to Rail V5 Find converters by Voltage Current Make 34		<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 5px;"> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Model</th> <th>Voltage</th> <th>Current</th> <th>Type</th> <th>Package</th> </tr> </thead> <tbody> <tr><td>0</td><td>XXX1</td><td>1.8</td><td>40</td><td>Brick</td><td>n/a</td></tr> <tr><td>1</td><td>XXX2</td><td>5.0</td><td>25</td><td>Brick</td><td>n/a</td></tr> <tr><td>2</td><td>XXX3</td><td>3.3</td><td>35</td><td>Brick</td><td>n/a</td></tr> <tr><td>3</td><td>YY1</td><td>1.5</td><td>10</td><td>VRM</td><td>SMT</td></tr> <tr><td>4</td><td>YY2</td><td>2.5</td><td>10</td><td>VRM</td><td>SMT</td></tr> <tr><td>5</td><td>Z1</td><td>2.0</td><td>0.1</td><td>LDO</td><td>SOIC</td></tr> </tbody> </table> </div> <div style="text-align: center;"> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">35</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">31</div> <div style="border: 1px solid black; padding: 2px;">36</div> </div> <div style="border: 1px solid black; padding: 5px; width: 100px;"> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">New custom</div> <div style="border: 1px solid black; padding: 2px;">Add to rail</div> </div> </div>							Model	Voltage	Current	Type	Package	0	XXX1	1.8	40	Brick	n/a	1	XXX2	5.0	25	Brick	n/a	2	XXX3	3.3	35	Brick	n/a	3	YY1	1.5	10	VRM	SMT	4	YY2	2.5	10	VRM	SMT	5	Z1	2.0	0.1	LDO	SOIC
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<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; align-items: center;"> <div style="margin-left: 5px;"> Rail V0 1.8V 40A </div> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">PC0</div> </div> </div> <div style="text-align: center;"> <div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; align-items: center;"> <div style="margin-left: 5px;"> Rail V1 5.0V 25A </div> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">PC1</div> </div> </div> <div style="text-align: center;"> <div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; align-items: center;"> <div style="margin-left: 5px;"> Rail V2 1.5V 10A </div> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">PC2</div> </div> </div> <div style="text-align: center;"> <div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; align-items: center;"> <div style="margin-left: 5px;"> Rail V3 2.5V 10A </div> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">PC3</div> </div> </div> <div style="text-align: center;"> <div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; align-items: center;"> <div style="margin-left: 5px;"> Rail V4 2.0V 0.1A </div> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">PC4</div> </div> </div> <div style="text-align: center;"> <div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; align-items: center;"> <div style="margin-left: 5px;"> Rail V5 3.3V 35A </div> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">PC5</div> </div> </div> </div>																																																	
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Input 48V </div> <div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; align-items: center;"> <div style="margin-left: 5px;"> Rail V0 1.8V 40A </div> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">PC0</div> </div> </div> <div style="width: 30%;"> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Rail V1 5.0V 25A </div> <div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; align-items: center;"> <div style="margin-left: 5px;"> Rail V1 5.0V 25A </div> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">PC1</div> </div> </div> <div style="width: 30%;"> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Rail V2 1.5V 10A </div> <div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; align-items: center;"> <div style="margin-left: 5px;"> Rail V2 1.5V 10A </div> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">PC2</div> </div> </div> <div style="width: 30%;"> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Rail V3 2.5V 10A </div> <div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; align-items: center;"> <div style="margin-left: 5px;"> Rail V3 2.5V 10A </div> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">PC3</div> </div> </div> <div style="width: 30%;"> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Rail V4 2.0V 0.1A </div> <div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; align-items: center;"> <div style="margin-left: 5px;"> Rail V4 2.0V 0.1A </div> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">PC4</div> </div> </div> <div style="width: 30%;"> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Rail V5 3.3V 35A </div> <div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; align-items: center;"> <div style="margin-left: 5px;"> Rail V5 3.3V 35A </div> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">PC5</div> </div> </div> </div>																																																	
Details of Converter PC5 <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 45%;">Make</div> <div style="border: 1px solid black; padding: 2px; width: 45%;">Model</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 45%;">Location</div> <div style="border: 1px solid black; padding: 2px; width: 45%;">Delete</div> </div>			Details of Rail V5 <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 45%;">Label</div> <div style="border: 1px solid black; padding: 2px; width: 45%;">Nominal Output</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 45%;">V5</div> <div style="border: 1px solid black; padding: 2px; width: 45%;">3.3</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 45%;">Volts</div> <div style="border: 1px solid black; padding: 2px; width: 45%;">Amps</div> </div>			Margining <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 45%;">Minimum</div> <div style="border: 1px solid black; padding: 2px; width: 45%;">Maximum</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 45%;">3.2</div> <div style="border: 1px solid black; padding: 2px; width: 45%;">3.4</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px; width: 45%;">Volts</div> <div style="border: 1px solid black; padding: 2px; width: 45%;">Volts</div> </div>			Monitoring <div style="border: 1px solid black; padding: 5px; margin-top: 5px; text-align: center;"> 32 </div>																																								

FIG. 7

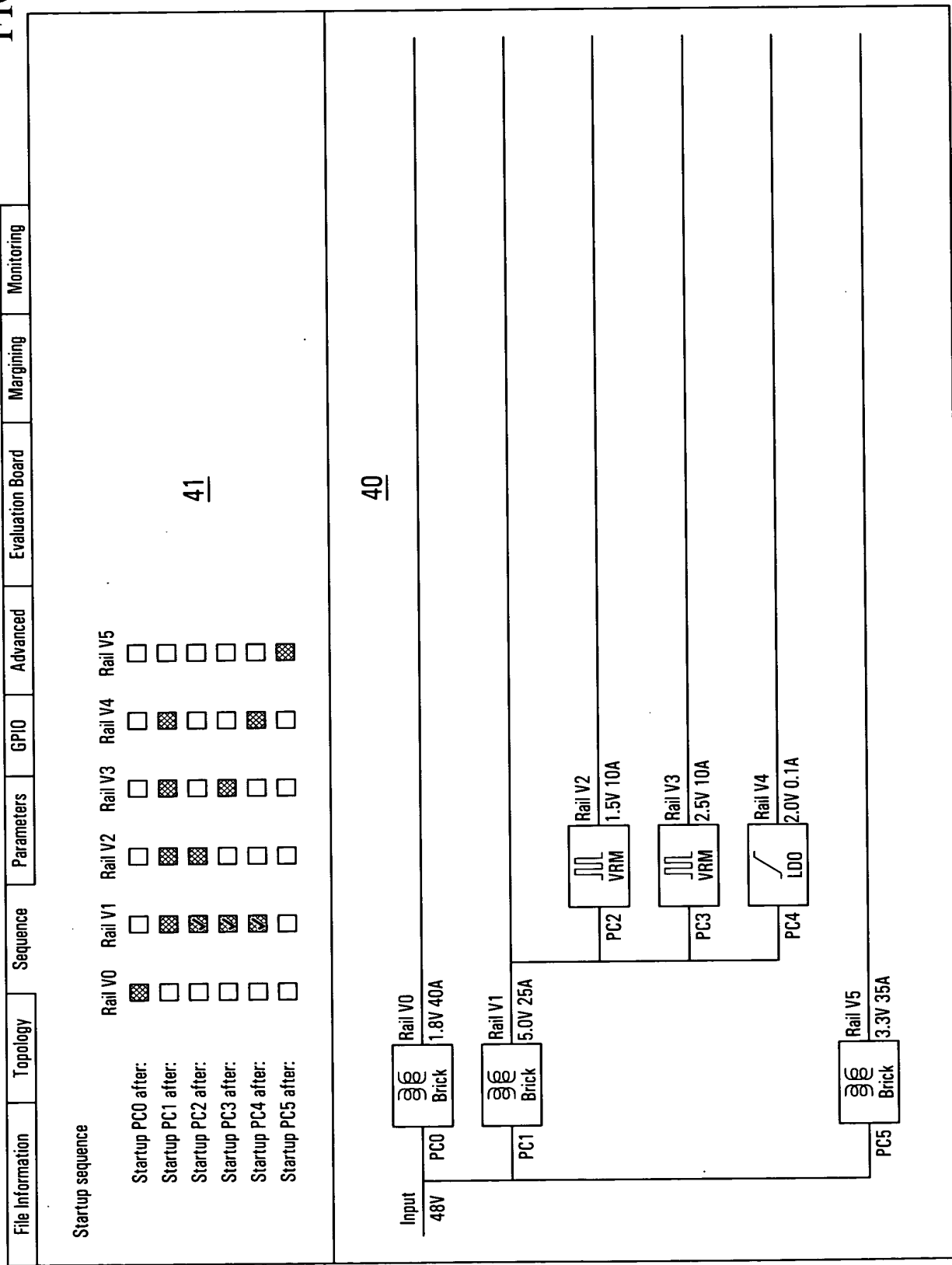


FIG. 8

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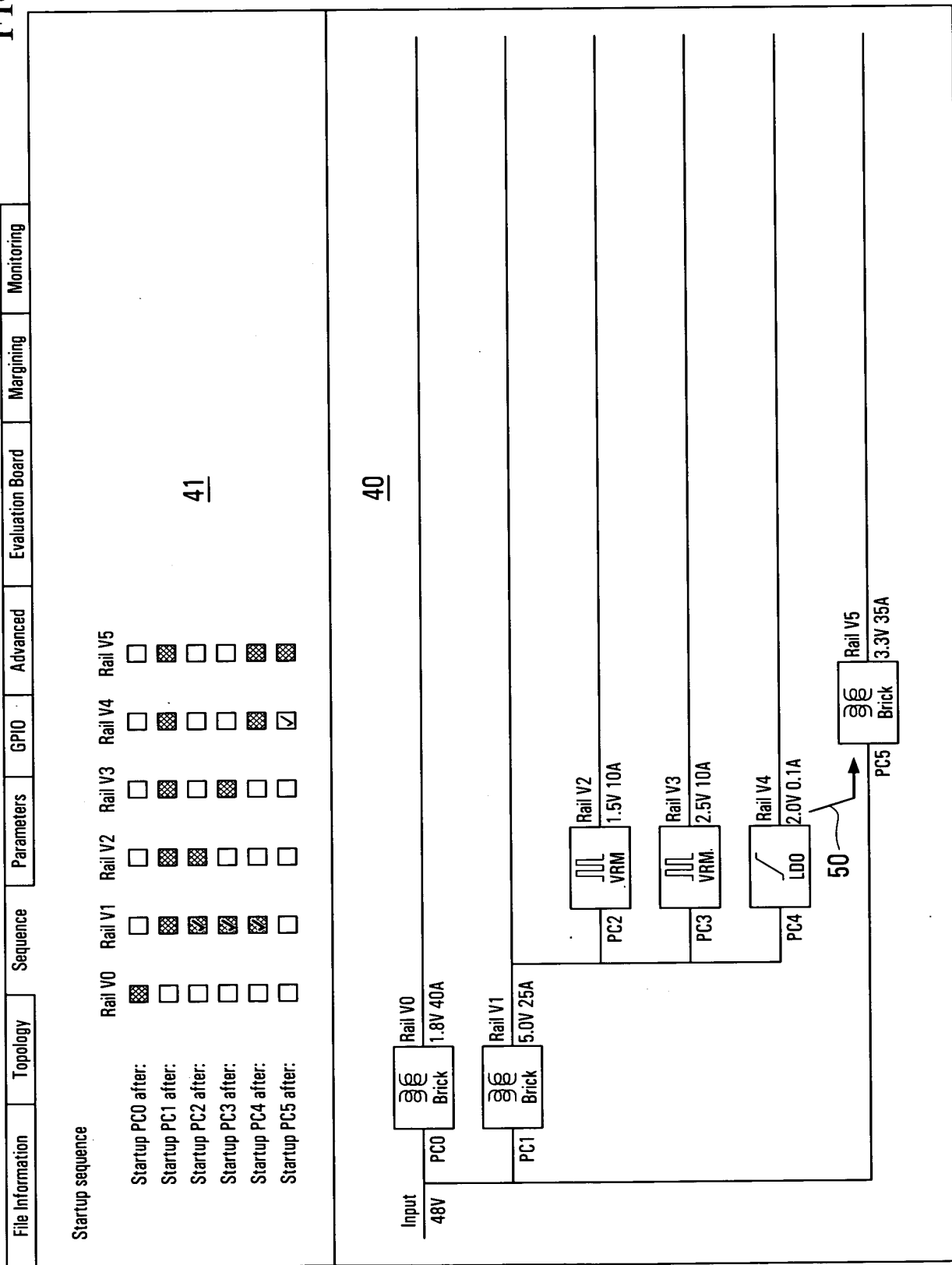


FIG. 9

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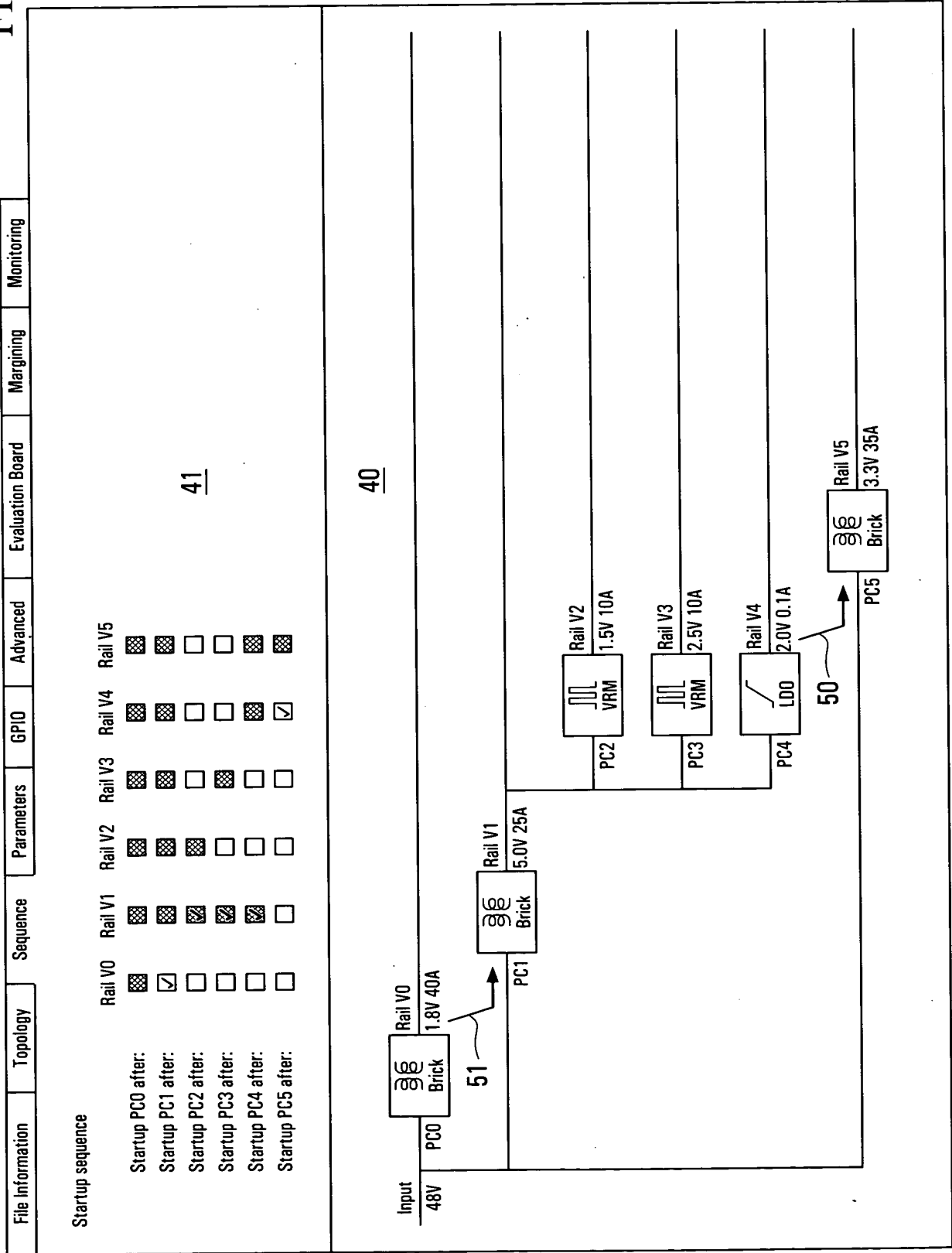


FIG. 10

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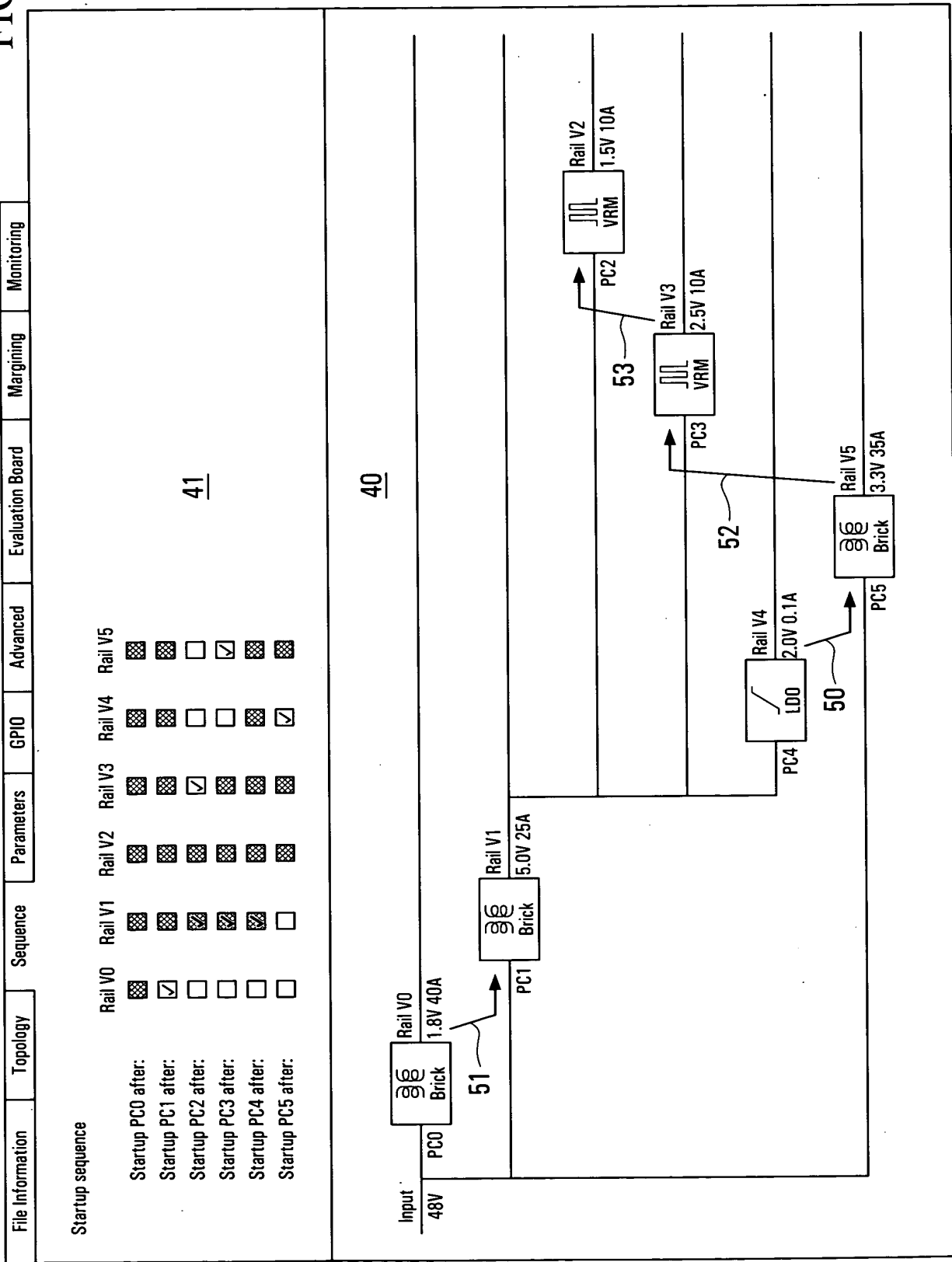
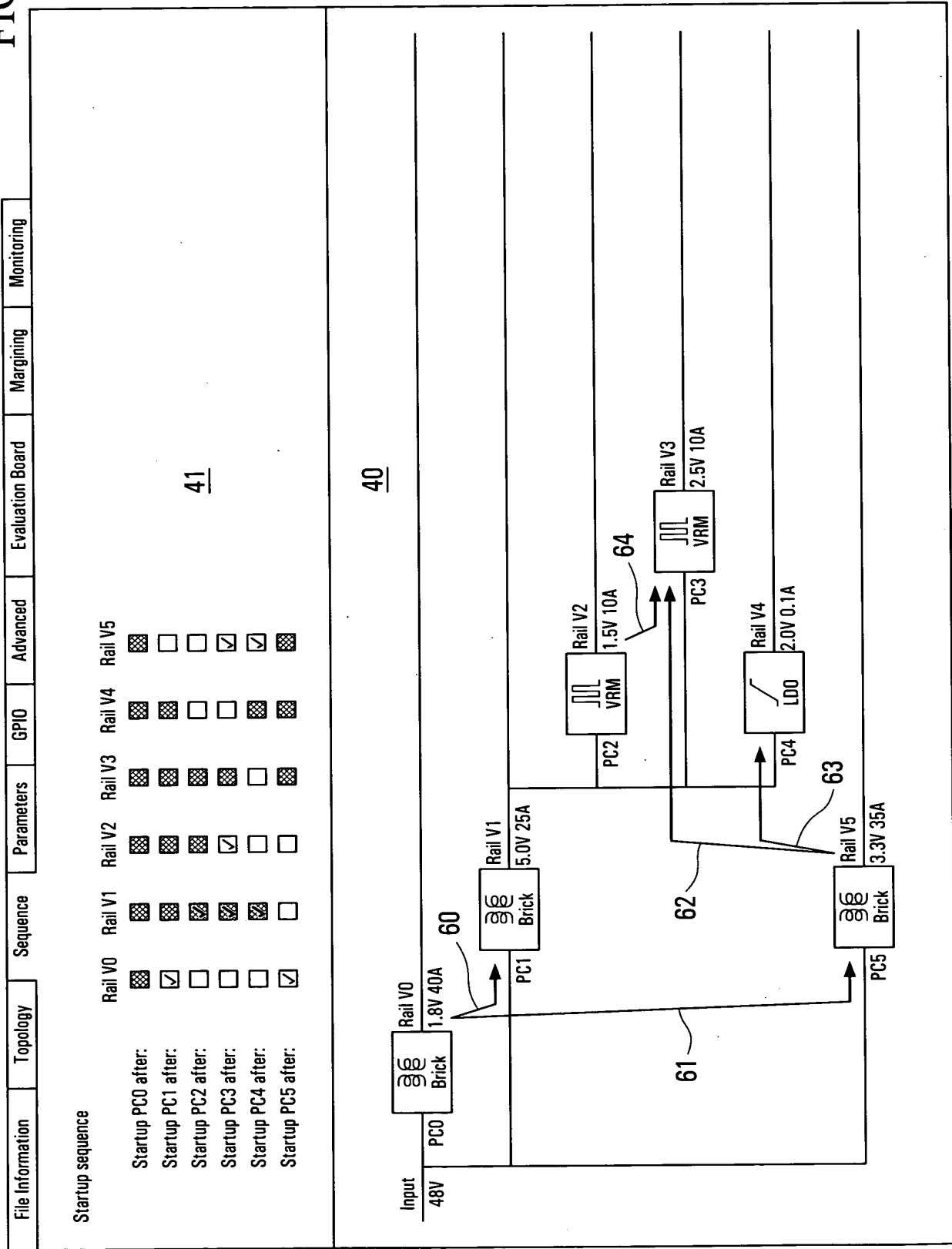


FIG. 11



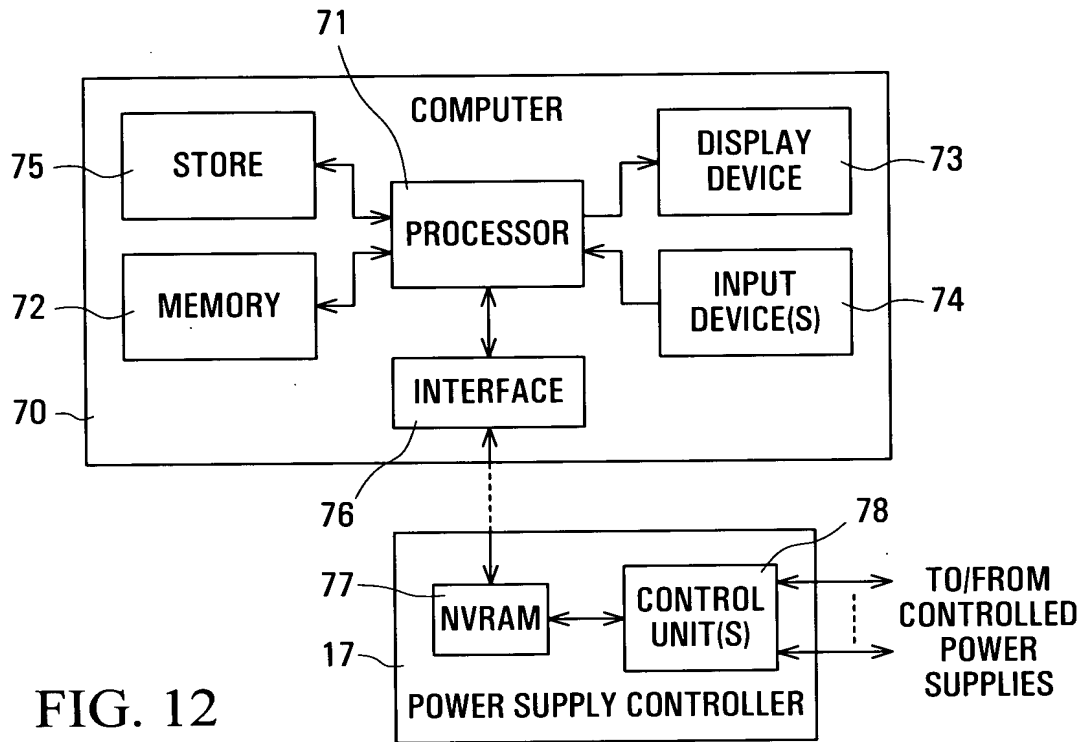


FIG. 13

BIT:	7	6	5	4	3	2	1	0
CONFIG	0	0	1	1	1	1	1	1
STRTEN(0)	0	1	0	0	0	0	0	0
SHDNEN(0)	0	0	0	0	0	0	1	0
STRTEN(1)	0	0	0	0	0	0	0	1
SHDNEN(1)	0	0	0	1	0	0	0	0
STRTEN(2)	0	0	0	0	1	0	0	0
SHDNEN(2)	0	1	0	0	0	0	0	0
STRTEN(3)	0	0	1	0	0	0	0	0
SHDNEN(3)	0	0	0	0	0	1	0	0
STRTEN(4)	0	0	0	0	0	0	1	0
SHDNEN(4)	0	0	1	0	0	0	0	0
STRTEN(5)	0	0	0	1	0	0	0	0
SHDNEN(5)	0	0	0	0	1	0	0	0